## **WHAT IS CLAIMED IS:**

A flat panel for a cathode ray tube comprising:

an outer surface having a flat configuration; and

an inner surface having a non-spherical, convexly curved configuration relative to the outer surface and satisfying formula 1,

$$Y_1 \le Y_2$$
.....(formula 1)

wherein  $Y_1$  represents a vertical distance between the outer surface and a refracted screen image on a central axis of the panel, and  $Y_2$  represents a vertical distance between the outer surface and the refracted screen image in peripheral areas other than the central axis of the panel.

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- 2. A flat panel for a cathode ray tube as claimed in claim 1, wherein the panel has a high transmission ratio equal to or greater than about 60%.
- 3. In a cathode ray tube comprising a funnel having a neck part and an opening part, an electron gun provided at a front end portion of the neck part in the funnel for emitting electron beams, a deflection yoke for deflecting the electron beams emitted from the electron gun, a shadow mask for discriminating the electron beams deflected by the deflection yoke, and a panel coupled in the opening part of the funnel and provided with a phosphor surface inside for

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7	realizing a screen image by the electron beams discriminated by the shadow

mask, the panel comprising: 8

an outer surface having a flat configuration; and 9

an inner surface having a non-spherical, convexly curved 10

configuration relative to the outer surface and satisfying formula 1, 11

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$$Y_1 \le Y_2$$
.....(formula 1)

wherein Y<sub>1</sub> represents a vertical distance between the outer surface and a refracted screen image on a central axis of the panel, and Y2 represents a vertical distance between the outer surface and the refracted screen image in peripheral areas other than the central axis of the panel.

4. A flat panel for a cathode ray tube as claimed in claim 3, wherein the panel has a high transmission ratio equal to or greater than about 60%.

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